

WASTE MANAGEMENT & ANALYTICAL SERVICES

Expectation:

Safely treat, store and dispose of solid wastes and liquid effluents; store cesium and strontium capsules; provide waste generator, environmental and waste minimization services; and integrate and provide analytical laboratory services to the Site.

Transuranic (TRU) Waste:

- Safely completed the first three shipments of Hanford TRU waste to the Waste Isolation Pilot Plant (WIPP). About 2,500 shipments will be made over the next 35 years.
- Processed 539 drum equivalents of TRU waste at the Waste Receiving and Processing Facility this fiscal year, well exceeding a goal of 500. “Drum equivalents” are a composite representing the number of containers fully or partially processed by non-destructive examination, non-destructive assay, visual exam, radiography or repackaging.
- Retrieved 437 drums, exceeding our goal of 425, and designated them as either TRU or low-level waste.



DOE Richland's Assistant Manager for Environmental Restoration and Waste Management Beth Bilson, Washington Congressman Doc Hastings, and DOE Richland Manager Keith Klein add their names to a poster commemorating the start of Hanford's TRU waste shipments. Lower photo: the first shipment arrives safely for inspection at its destination in New Mexico.



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Fluor Hanford

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Waste Treatment and Disposal:

- Completed treatment or direct disposal of 1,654 cubic meters of mixed low-level waste, exceeding a September 2002 Tri-Party Agreement milestone of 1,644 cubic meters by more than two years.
- Disposed of 8,079 cubic meters of low-level waste from Hanford and offsite generators in the 200-Area low-level burial grounds in fiscal 2000.
- Protected Site groundwater by treating more than 17 million gallons of radioactive or hazardous wastewater this fiscal year at the 200-Area Effluent Treatment Facility.



A 20-ton Category 3 (certified high-integrity) waste container, holding 37 cubic meters of waste, is disposed in Hanford's Mixed Low-Level Waste Trench.

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Analytical Services:

- 222-S Laboratory and Waste Sampling and Characterization Facility workers completed analysis and characterization reports this quarter for high-level waste in tanks AZ-101 and AY-102, as well as vapor analysis on tank AZ-101 mixer pump test samples. These efforts support DOE's Office of River Protection.

What's Next:

- Ship mixed low-level waste to the local Allied Technology Group facility for thermal treatment after they complete construction and installation of a new plasma melter.
- Prepare for receipt in the Central Waste Complex of TRU waste generated by DOE's Rocky Flats Site, now being stabilized at Hanford's Plutonium Finishing Plant. The waste will ultimately be sent to the Waste Isolation Pilot Plant.



A plasma melter under construction at the Allied Technology Group (ATG) facility in Richland will thermally treat mixed low-level waste from Hanford. This fiscal year, Fluor Hanford shipped ATG nearly 1,200 cubic meters – 11 percent more than objective – of a different type of mixed low-level waste for non-thermal treatment.